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NATURAL RESOURCES

CLEON B. FEIGHT
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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

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M E M O R A N D U M
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TO: The Board of Oil, Gas and Mining

FROM: Thomas J. Suchoski, Engineering Geologist

SUBJECT: Rush Valley Enterprises, Inc.
Tub Hill Mine
ACT/045/013¹⁵

DATE: December 10, 1980

The Division of Oil, Gas and Mining has reviewed the Mining and Reclamation Plan submitted by Rush Valley Enterprises for the Tub Hill Mine and feels the plan meets the requirements of the Utah Mined Land Reclamation Act. The Division seeks the Board's concurrence on the amount and form of surety, tentative approval and, pending no adverse public comment, issuance of final approval. An Executive Summary is enclosed for your review and information.

Enclosure: Executive Summary

TJS/btm

EXECUTIVE SUMMARY

Rush Valley Enterprises, Inc.
Tub Hill Mine
ACT/045/013
Section 32
Township 7 South, Range 4 West
Section 5
Township 8 South, Range 4 West
Tooele County, Utah

LOCATION:

Rush Valley Enterprises is proposing an open-pit gold mine and processing facility in the Rush Valley area. The surface facilities will be located in Section 5, Township 8 South, Range 4 West. The open pit will be located in Section 32, Township 7 South, Range 4 West. See accompanying map.

SOILS AND GEOLOGY:

Soils in the area are sandy and will be stockpiled prior to disturbance. Upon completion of mining, the topsoil will be spread over the area of disturbance, and will be revegetated. Soils have a pH of 8.2 and will be fertilized to aid in revegetation success.

Geology of the area consists of Quaternary Alluvium overlaying the Ely and Arcturus Formations.

HYDROLOGY:

Surface water in the area consists of an ephemeral stream, Sabia Creek, which flows in response to summer thunderstorms and spring snowmelt.

Groundwater use consists primarily of stock water wells. Minimal groundwater development exists at the present time.

ECOLOGY:

The area is sparsely vegetated, 19.6% average cover, with sagebrush, rabbitbrush, perennial and annual grasses and some forbs.

The area is presently used for cattle grazing, with a past history of mining activities in the general area.

STRUCTURES AND FACILITIES:

The surface disturbance shall be confined to ____ acres at any one time and shall consist of: an open pit approximately ____ acres in size, office building, bathhouse, warehouse, shop, power substation, fuel storage, powder magazine and waste rock disposal facility, ore stockpile and topsoils stockpile areas.

EXECUTIVE SUMMARY

ACT/045/013

Page two

MINING AND RECLAMATION PLAN:

During Operations:

1. Surface mining will be conducted in a safe, orderly and minerlike fashion.
2. Soil from areas of new surface disturbance will be removed and properly stockpiled.
3. All disturbed materials not immediately involved in the mining and milling process will be stored in waste piles or in inactive open cuts.
4. Areas of new surface disturbance will be kept to a minimum.
5. All toxic or alkali-producing soils and materials will be isolated in conformance with all Federal and State regulations.

After Operations:

1. Extraneous debris, scrap metal, wood and unuseable equipment and buildings will be buried or removed from the location.
2. All areas disturbed by this operation will be graded to stable slopes of 45° or less and stabilized by seeding with a specified seed mixture.
3. All roads, exception main access roads, will be regraded and seeded.
4. Stockpiled topsoil will be spread over all disturbed areas.
5. Scarification and other soil treatment techniques will be employed on compacted surfaces before seeding.
6. Pre-disturbed areas not affected by the proposed mining operation may be regraded depending upon the proximity of the area to disturbed sites and general feasibility of each area.
7. Reseeded areas will be protected from livestock until vegetation is established.

IMPACTS:

The reclamation plan will mitigate environmental and safety hazards.

EXECUTIVE SUMMARY

ACT/045/013

Page three

SURETY:

Reclamation surety for this operation was estimated to be \$18,890.00 which includes a 13% inflation for five years of the mine life, to be readjusted as required at a review every five years.

The surety estimate includes the following work:

1. Removal of structures and equipment.
2. Removal of trash and debris.
3. Leveling of ancillary facilities and access roads.
4. Recontouring excavations.
5. Spreading of soils or surficial materials.
6. Soil stabilization, scarification, seeding of disturbed areas.
7. Thirteen percent inflation.

A copy of the reclamation surety is enclosed.

